

Spot Safety Project Evaluation

Project Information

Order ID: 41000030291

Project ID: 06-04-218

Location: SR 1006 (Maxwell Road) and SR 1826 (Wade-Stedman Road)

County: Cumberland

City: Fayetteville

Division: 6

Signal ID: 06-1154

Countermeasure: Construct left turn lanes on both approaches of SR 1006 and revise existing flasher.

Project Completion: February 1, 2010

Project Cost: \$241,000

Map and Aerial (from Google Maps, Google Coordinates are -- 35.063413,-78.696383)



Naive Before and After Analysis

Before Period: May 1, 2005 through November 30, 2009 (4 years, 7 months)

Const. Period: December 1, 2009 through February 28, 2010

After Period: March 1, 2010 through September 30, 2014 (4 years, 7 months)

Analysis Criteria: Treatment data consisted of all crashes within 150 feet of the subject intersection for the SR 1006 and SR 1826 approaches.

Target Crashes: Left Turn Same Roadway (LTSR) Crashes on SR 1006, where the left turn lanes were installed in the after period.

<u>Treatment Information</u>	Before	After	Percent Reduction (-) Percent Increase (+)
Total Crashes	6	2	- 66.7 %
Total Severity Index	28.73	4.7	- 83.6 %
Target Crashes	2	0	- 100.0 %
Target Crash Severity Index	42.6	0	- 100.0 %
Volume (2007, 2012)	7,300	6,900	- 5.5 %

<u>Injury Crash Summary</u>	Before	After	Percent Reduction (-) Percent Increase (+)
Fatal injury Crashes	0	0	N/A
Class A injury Crashes	2	0	- 100.0 %
Class B injury Crashes	0	1	+ 100.0 %
Class C Injury Crashes	2	0	- 100.0 %
Property Damage Only	2	1	- 50.0 %

<u>Additional Information</u>	Before	After	Percent Reduction (-) Percent Increase (+)
SR 1006 LTSR (Target)	2	0	- 100.0 %
Angle Crashes	2	2	N/A

Overall Summary Results

Total Crashes:	- 67 %	(reduction)
Total Crash Severity:	- 84 %	(reduction)
Target Crashes:	- 100 %	(reduction)
Target Crash Severity:	- 100 %	(reduction)
Volume:	- 6 %	(reduction)

Additional Summary Results

Left Turn, Same Roadway (Target): - 100 % (reduction)

Items for Discussion/Concerns

Left Turn, Same Roadway crashes on SR 1006 were eliminated in the after period. There were two LTSR crashes in the before period.

Data Prepared For

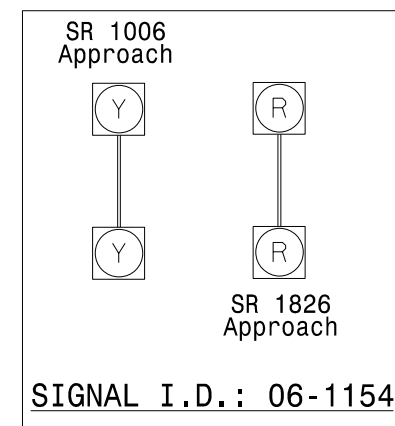
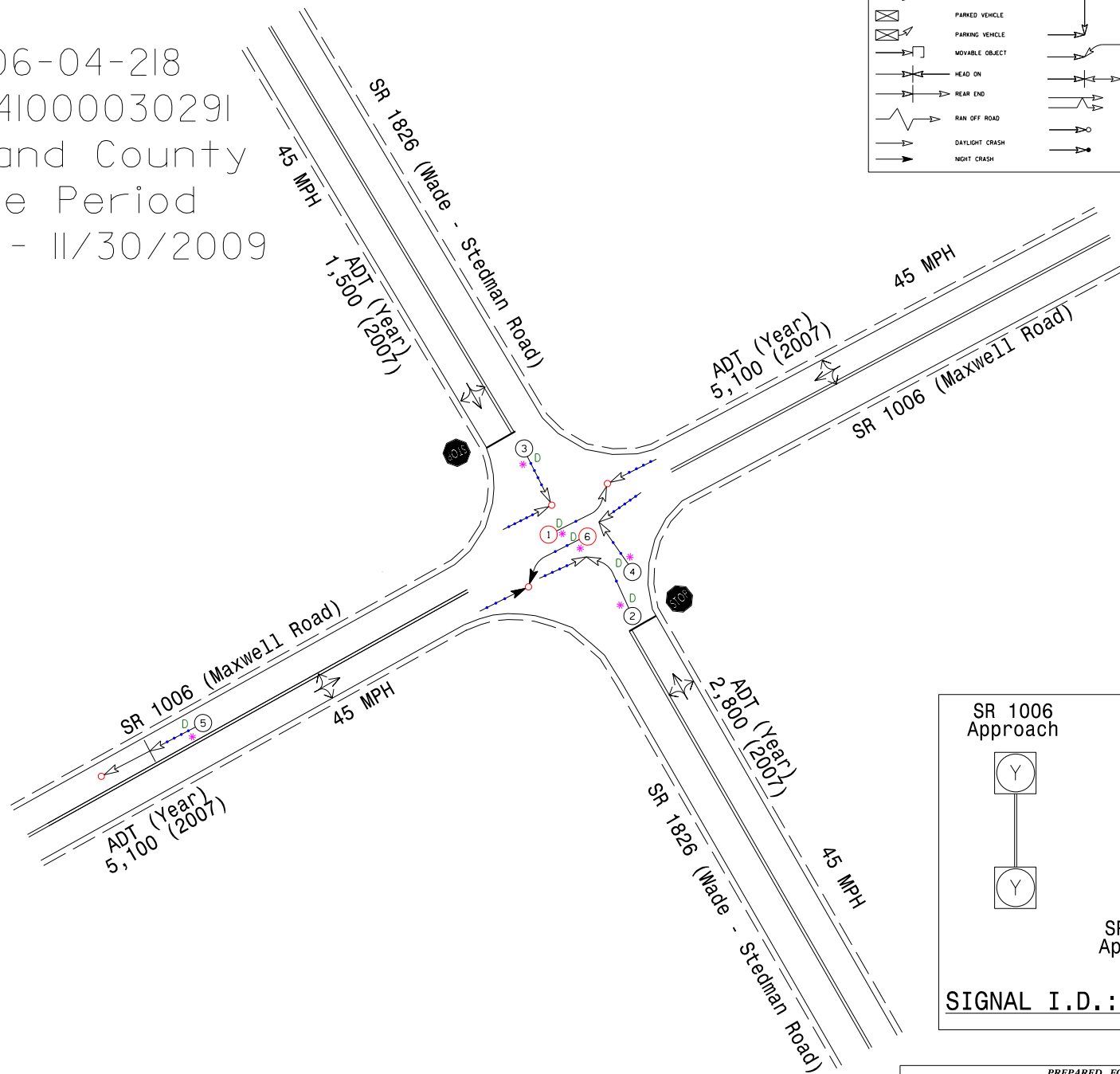
The Traffic Safety Unit *of the*
Transportation Mobility and Safety Division *of the*
Division of Highways *of the*
North Carolina Department of Transportation

Data Prepared By

Principal Investigator: Elizabeth Scott, EI
Work Group/Consultant: Stantec Consulting Services Inc.
Date: October 31, 2014

SS# 06-04-218
 Order#41000030291
 Cumberland County
 Before Period
 5/1/2005 - 11/30/2009

LEGEND			
	MOVING VEHICLE		ANGLE
	PARKED VEHICLE		TURNING
	PARKING VEHICLE		BACKING
	MOVABLE OBJECT		SIDESWIPE
	HEAD ON		INJURY
	REAR END		FATALITY
	RAN OFF ROAD		9 MPH OR LESS
	DAYLIGHT CRASH		10 MPH TO 19
	NIGHT CRASH		20 MPH TO 29
			30 MPH TO 39
			40 MPH TO 49
			50 MPH TO 59
			60 MPH TO 69
			70 AND UP
			SPEED UNKNOWN
			A ANIMAL
			P PEDESTRIAN
			B BICYCLE
			T TRAIN
			• DRIVER AT FAULT
			D DRY
			W WET
			I ICY OR SNOWY
			O OTHER



PREPARED FOR
N.C. DEPARTMENT of TRANSPORTATION
DIVISION of HIGHWAYS
TRANSPORTATION MOBILITY and
SAFETY DIVISION

Date: 10/31/2014

Prepared By: ESS

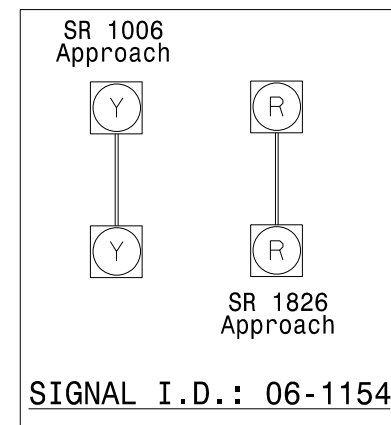
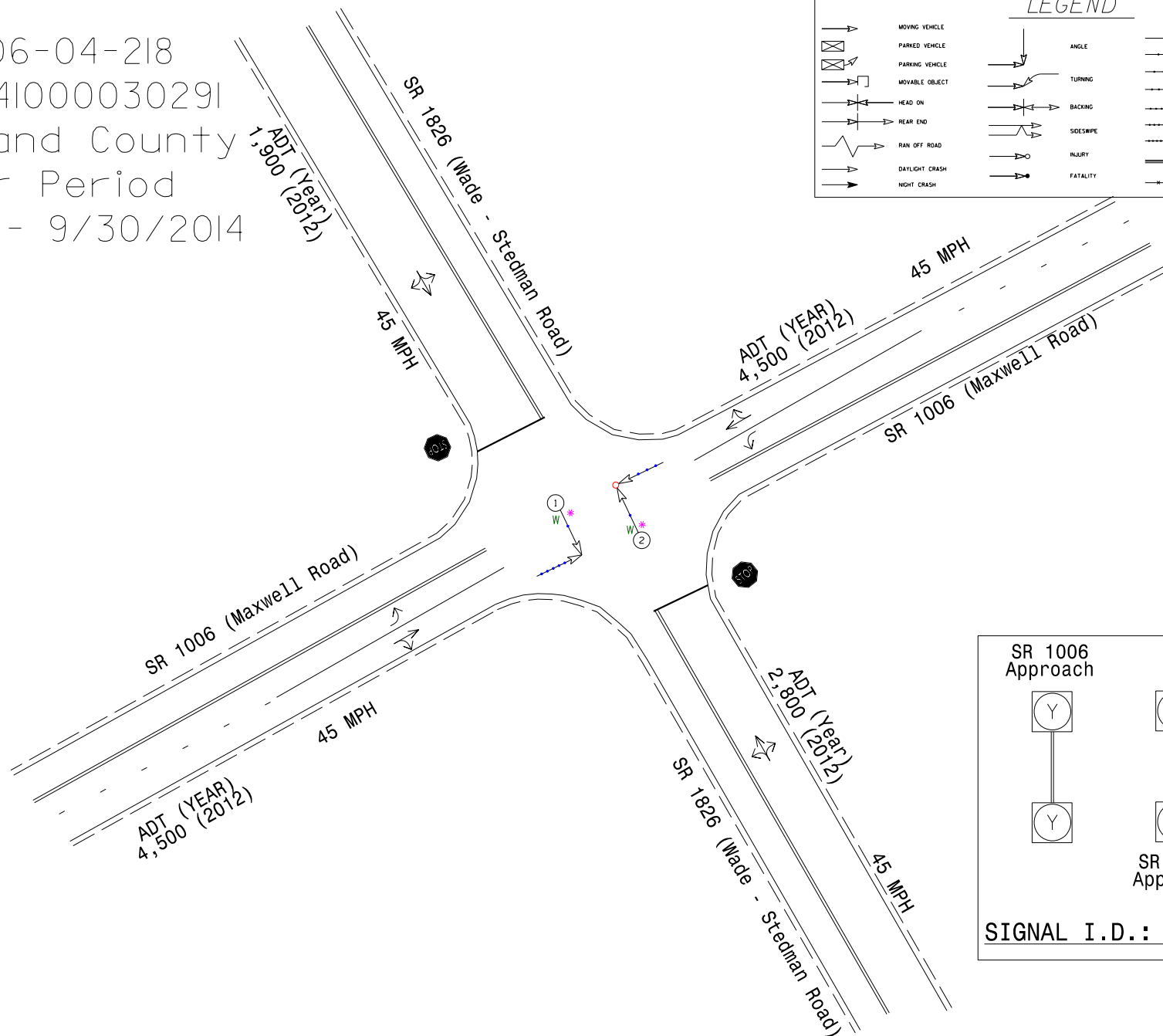


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SS# 06-04-218
 Order#41000030291
 Cumberland County
 After Period
 3/1/2010 - 9/30/2014

LEGEND			
	MOVING VEHICLE		ANGLE
	PARKED VEHICLE		TURNING
	PARKING VEHICLE		BACKING
	MOVABLE OBJECT		SIDESWIPE
	HEAD ON		INJURY
	REAR END		FATALITY
	RAN OFF ROAD		
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